SBA NO- 1214-12

Original/Duplicate/Triplicate

P.W.G. 17 1st and final Bill **CONTRACT CERTIFICATE** Reference paras 158 & 170

NO 5

Division Yelahanka Sub division Yelahanka New Town Date 30.6.16

Bills received No Date Sub-divisional Cash book vr No

Divisional Date 30.06.16

Sredules Docket No Head of account

Name of work(as per sanctioned estimate) :- NAME OF WORK :Drilling of borewell and providing pump and motors in ward no 03 of Yelahanka New Town in place of providing asphalting to road at Javaregowda house in Muneshwara Layout Attur ward no 03

Work Code:003-14-000018

Name of contractor and full address :- Technical Manager (west)

Reference to agreement No :- 534 Estimated cost : 10.00 Work order No:534, dt:12/01/2016

Certified that the measurments were taken by me on and recorded on pages to of measurment book No and the work is satisfactorily executed by the contractor.

Signature of contractor

Asst. Engineer

Certified that the measurments were taken by me on and recorded correct The work is satisfactorily executed

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Certified that the quantities of materials shown in column 3 of account II have been actualy brought to site of work and the contractor has not previously received any advance on this security. Those materials are of any imperishable nature and are all required by the contractor for suitable use on the work in connection with items for which rates finished work have been agreed upon A formal agreement signed and executed by the contractor is recorded in divisional office

Sub-divisional officer

II MEMORANDUM OF PAYMENT

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಯಲಹಂಕ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

1)	Total value of work done or supplies as per A/c within	
2)	Deduct amount to be held in reserve being----percent Rs----------%----------	
3)	Balance---	
4)	**Deduct payments**	
	a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S D No----------Amount	Bill 982633
	b) Cost of payments/stores or other materials supplied now made recovery of	AD 49135
	Amount paid on this bill by cheque/cash	SS 196540
	Total	EM 393080
5)	Balance being unpaid value of work done held in reserve	LWF 982
6)	Deduct cash of advance made on divisional/sub (divisional cash book	CGF 982
7)	Net amount due to or from contractor	[illegible]
	UN ADJUSTED ITEMS	
8)	Advance to contractor for materials to site(as detailed within)	119413
9)	Value of government materials supplied.	862-80
	TOTAL AMOUNT UN-ADJUSTED	982633

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum

(in final settlement of all demend)

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Witness

1)

2)

Reciept Stamp

Dated signature of contractor

Paid by the cheque No dated

Assistant Executive Engineer
Byatarayanapura Sub-division
KRIDL, BBMP, Bangalore

Cash Rs.....

Dale Initials of officer making payment

Amount Admitted for Rs. 982633/-

Rs. 863260/- by Cheque

and Rs. 119413/- by Adjustment

Date Executive Engineer

Asst. Supdt. Yelahanka Division BBMP

Exe. Engineer Yelahanka Division BBMP

Sl.	Items grouped under		s		Present			Total	
	Sub-heads and	Unit	ement		Measurement			Up to date	
	Sub-works of the estimate		Qty	Cost	Qty	Rate	Amount	Qty	Co
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground Wate in the vicinity, its quality(1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of	Each DW			2.00	1882.00	3764.00	2.00	3764.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, thruading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.,) 29/1.1 PRED SR 2006-07 and as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr							
	0 to 50 m				100.00	306.00	30600.00	100.00	30600.00
	50 to 100 m				100.00	400.00	40000.00	100.00	40000.00

				100.00	445.00	44500.00	100.00	44500.00
				100.00	470.00	47000.00	100.00	47000.00
				100.00	544.00	54400.00	100.00	54400.00
				30.00	583.00	17490.00	30.00	17490.00
	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) as per corragandam with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			90.00	1325.00	119250.00	90.00	119250.00
4	Providing 250mm dia PVC Pipe 6kg/cm as per specificatinn and direction of the Engineer in Charge of the work with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			20.00	754.47	15089.40	20.00	15089.40
5	Providing and fixing 160mm Borewell Cap with all lead and lift complete as per specification as per direction of Engineer incharge.	Each			2.00	100.00	200.00	2.00	200.00

6	Supply and delivery at site brand New texmo/ Kirloskar/ Lubi/ Sabar / Shalimar/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by meaans of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP SF PIPED				2.00	60084.36	120168.72	2.00	120168.72

7	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threafies at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008. 50 mm dia including Collar Heavy Class with all lead and lift complete as per specification as per	Rmtr			400.00	375.00	150000.00	400.00	150000.00
					150.00	130.00	19500.00	150.00	19500.00
					69		8970	69	8970

8	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/1 No. 30-B 4.0 Sqm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			840.00	151.00	126840.00	840.00	126840.00
9	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for year with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	3000.00	6000.00	2.00	6000.00

	Supplying and fixing 24"x12"x0.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 30/1 No. 2/f KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	285.00	570.00	2.00	570.00
11	Supplying of LTUG cable having aluminium conductor PVC insulated sheathed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.P No. 67/1 No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			50.00	150.00	7500.00	50.00	7500.00
12	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, P-68 /I,No.11a) KPWD Electrical SR 2007-08 with all lead and lift complete as per specificaiton as per direction of Engineer incharge.	Mtr			50.00	8.00	400.00	50.00	400.00

	[illegible] trenching of [illegible] wide [illegible] the trench to the [illegible] ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ I. No. 12-d KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			40.00	60.00	2400.00	40.00	2400.00
14	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 69/ I No.15-A KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Mtr			8.00	240.00	1920.00	8.00	1920.00
15	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 16-b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	260.00	520.00	2.00	520.00

	Supplying, fixing, wiring, earth electrode for connecting conduits, LC cabinets and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of soil and charcoal 150 mm around the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, P-66, I.No.7) KPWD Electrical SR 2007-08 with all lead and lift complete as per	No			2.00	1950.00	3900.00	2.00	3900.00
17	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No. 30/I No 3b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	No			12.00	100.00	1200.00	12.00	1200.00

	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications,with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	1114.06	2228.12	2.00	2228.12
19	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 93/ I. with all lead and lift complete as per specification as per direction of Engineer incharge.	No			2.00	201.40	402.80	2.00	402.80
20	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc coomplete with all lead and lift complete as per specification as per direction of Engineer incharge	No			8.00	80.00	640.00	8.00	640.00
21	Supplying shunt capacitor confirming to IS 2834, 3 phase 400/400 volts grade for power factor improvement of rotaining machinary, capacitorin KVAR rating Nos. 2KVAR capacity with all	No			2.00	350.00	700.00	2.00	700.00

	Supplying and fixing miniature circuit breakers isolators on existing MCB distribution boards using necessary fixing material wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications with all lead and lift complete as per specification as per direction of Engineer incharge.	no			2.00	1000.00	2000.00	2.00	2000.00
23	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 39, L.No. 390 KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer incharge.	Sqm.cm			46800.00	0.33	15444.00	46800.00	15444.00

	Supply and delivery at site brand new star / Essen/ Lotus/Sun-Tunes/ Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum-control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components	No			2.00	11000.00	22000.00	2.00	22000.00
29	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits	Cum			33.75	203.04	6852.60	33.75	6852.60

	...ing and installation ... of works ...C Pipes including cost ... pipes and specials and including lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the excavation Etc., Page No.3 item No.4.2 PRE SR2008-09. with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr					0.00	0.00	0.00
					100.00	157.00	15700.00	100.00	15700.00
28	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mtr, and lift upto 1.5m, including cost of all labour complete as per with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			33.75	71.28	2405.70	33.75	2405.70

	[illegible] and fixing in [illegible] cross gate valve [illegible] wheel of [illegible] ed quality (screwed [illegible] 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No. with all lead and lift complete as per specification as per direction of Engineer	Each			2.00	2120.00	4240.00	2.00	4240.00
30	BESCOM charges						10000.00		10000.00
				TOTAL			895825.34		895825.34
				KRIDL 11%			98540.79		98540.79
				G TOTAL			994366.13		994366.13

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+ 9854 —
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Asst. Engineer
Ward no:03

Asst. Executive Engineer
Yelahanka New Town Sub Division
BBMP, Bangalore-64.